## **WEST Search History**

DATE: Friday, February 18, 2008

Set Name side by side	Query	Hit Count	Set Name result set
•	;PGPB,JPAB,EPAB,DWPI; PLUR =YES; OP - ADJ	,	
L12	L3 and L6	54	L12
L11	L3 and L5	108	L11
L10	L2 and L6	0	L10
L9	L2 and L5	0	L9
1.8	L1 and L6	21	1.8
1.7	L1 and L5	66	1.7
L6	ribozym\$3	9962	L6
L5	antisens\$3	28519	L5
L4	1, 25 dihydroxyvitamin D3 receptor	0	L4
L3	vitamin D receptor	596	L3
L2	NR111	1	L2
L1	VDR	887	L1

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 11:41:48 IN 18 PER VIOLE

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1 k - ANGWER 1 08 U.S. BIDGIG - MARKIMET UCCH BIGLOGICAL ABSTRACTO INCLUDICATE 20.2:30462 BIGSTS PREW20020[304642] A COESSION NOMBER: SCOUMENT NUMBER: Mon-genomic stimulation of tyrosine phosphorylation TITLE: cascaies by 1,25. Holder by VDR-dependent and -independent mechanisms in muscle cells. Holand, Birard: I ; de Boland, And Busso; Buitrato, Maudia; Morelli, Ousana; Cantillan, Graciela; Mauques, ATTH RIF : claudia, elimiti, lusana, cantillan, Gratiela, Tamipeu, dillermi, Tapiati, laniela, baldi, Taricia dila lina li lepartamento de Biologia, Biopimbra and Falmatia, Università liational del Cir, Can Tian d'U, et ., Bahia blantar mollaniscribale qui ar Arbentina Cterridis, May, 1511 Vil. 40, No. 4, pp. 400-451. http://www.elimiter.com/ligate/sterridis.print. THE FAIR OF THEFE 0.75 %: 1881: 1.59-124X. DESTRICT TYPE: Artible LANGMAGE: English Studies with different cell types have shown that midulation of various if the fast as well as ling-term responses to 1,00 OH,203 depends on the activation of tyrosine kinase pathways. Recent investigations of our laboratory have demonstrated that 1,25(OH)2D3 rapidly stimulates in muscle cells tyrosine phosphorylation of PLC-gamma and the growth-related proteins MAPK and c-mys. We have now obtained evidence using antisense technology indicating that VDR-dependent activation of Src mediates the fast stimulation of tyrosine phosphorylation of c-myd elipited by the hormone. This non-genomic action of 1,28 OH: 203 regulars typesine thisphorylation of the VDR. Immunoprecipitation under native bunditions coupled to Western blot analysis revealed 1,0500H,203-dependent formation of emplexes between Sro and the VDR and c-myd. However, the activation of MAFK by the hormone was only partially mediated by the VDR and required in addition increased FKC and intracellular Ca2+. Following its phosphorylation, MAPK translocates into the nucleus where it regulates b-myd transcription. Altogether these results indicate that typising phosphorylation plays a role in the stimulation or mustle self mowth by 1,28 OH 123. Para were also that sized involving typosine kinasos and the VDR in hormone regulation of the Cal- messenger system by mediating the stimulation of store-operated Galdium (SOC) TRF: channels. Congruent with this action, 1,25(OH)2D3 induces a rapid translocation of the VDR to the plasma cell membrane which can be blocked by tyrosine kinase inhibitors. Of mechanistic relevance, an association between the VDR and TRP proteins with the participation of the scaffold protein INAT was shown. ANSWER 2 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INCLUDELICATE ACCESSION NUMBER: 2002:484046 BIOSIS DOCUMENT NUMBER: TITLE: PREM200200494046 Alteration of beligiar phosphorylation state difects vitamin I receptor-rediated CYFSA4 mENA injusticm in Cast-Haray Hirokard I / Yayamari, Y Roy Alashi, Dobs. ATTEMS 3: Tichar astry i Clinical Harman stick, Him France strict University, Sevel Himahoraen cashi, Site, [Vertor i parangit (5)] DOPECKATE S UPOE: Bischemical and Bi physical bescarch Communications, (August 7, 1015 Val. 1897, No. 1, pp. localor) .a. 118 128 : http://www.arabemicpress.htm/pich.print. Idsh: 10 k-1818. Artists COMMITTEE : DANATAR: English Expression of mytochrope E47 (A4) (YEMA) is induced by [1,0] - directory and the Edward A4 (A) and the Edward

reginal vitarin Direct haive element has not been ituni in the c'-ilanding regin of the CYPTAL deep, the mechanish of 1,000 B dir-incree TYPTAL managements of the cyptal vitarian is portly understood. In the present study, we security that vitarian is receptor VDR to a critical factor of the industrian using the antisense light deep factor to the probability and that the strent of latest factor with the probability and the tyr sine kinase of IRO, Inhibitors, starrisgorine and OFFICALINE, and the tyr sine kinase inhibitor, genistein, but not with the probability, and the tyr sine kinase inhibitor, genistein with phorbol ester abolished the industion. On the there hand, protein kinase inhibitors used had no effects on the constitutive expression of VDR meMA. Therefore, these theory than suggest that I,10 HeJDA-indused CYPSA4 meMA expression might be involved in phosphorylation events in addition to transcriptional regulation via VDR. However, I,10 HeJDA did not rapidly activate PKC in the Caso-1 bels used, while the treatment with starrosporine and GPI19213W, but not penistein, decreased basal PKC activity by appressor of the controls. Taken together, these findings suggest that the change in the phosphorylation state via FKC and tyrosine kinase might, at least in part, mithate 1,700 B abbeindage CYPSA4 meMA expression via VDR.

19 ANSWER 3 OF 13 BIOSIS ODERSIGHT 1003 BIOLOGICAL ARSTRACTS INC. LUBLICATE

Accession NUMBER: 2002:146648 Blosis

DOCUMENT NUMBER: PREVAGGAGGI46648

TITLE: The vitamin D receptor mediates rapid dianges in muscle protein tyrosine phosphorylation induced by 1,25(OH)2D3.

ACTHOR(S): Buitrago, Claudia, Manqueb, Guillermo, Da Boland, Ana R.,

Boland, Ricardo (1)

CORPORATE SOURCE: (1) Departamento de Biologia, Bioquimida and Farmadia,

Universidad Nacional del Sur, San Juan 670, 6000, Bahia

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SOURCE: Biochemical and Biophysical Research Communications,

(December 21, 2001) vol. 289, No. 8, pp. 1186-1186.

http://www.academicpress.dcm/bbrc.print.

ISSN: 0006-291%.

COCUMENT TYPE: Article LANGUAGE: English

AB It has been recently shown that the fast non-genimic responses of 1,25 cH/2-vitamin D3 (1,05 CH/2-D3) in skeletal muscle cells involve tyrosine phosphorylation of MAP kinase (EBK1 2), b-Sno kinase and the incorpotein b-myo. In the present work, blockade of vitamin 1 to beprop VDR) expression (attracts) by preincubation of chick embryonic

VDR' expression (storeght) by preincubation of online entryonly muscle cells with three different antisense oligonucle tiles against the VDR mRNA (AS-VDR CONS) simificantly reduced (-34 % 1,25 CH 2DS stimulation of c-myo byrosine phosphorylation

and inhibited c-Sro tyrosine dephosphorylation implying lash of o-Sro activation by the hormone. Oc-immunoprecipitation experiments revealed that 1,25-(0H)213 induces the formation of complexes between t-Sro and o-myo, in agreement with the above results and previous studies showing hormone-dependent association between t-Sro and tyrosine phosphorylated

VDR and o-Src mediated c-myo tyrosine phosphorylation. MAPK tyrosine phosphorylation by 1,28 (CH) DDB was affected to a lesser extent -35 ( by transfection with Ad-VDR DDMs implying that both

VDR-dependent and VDR-independent simulation mediate hormone stimulation of MARK. These are the first results providing direct evidence on the participation of the VDR in a nese multiple of 1,15 CH LDs signal transduction. Activation of typicale phosphotylation cascades the outside this remains may contribute to hor be really to must be on with.

18 ANDREA & FOR EDITOR CHIEFTED CONFIDENCE ARCHARDS IN INCIDENCE

2011:247184 P10818 EBEV20001047184 ACCESSI A NUMBER: Steroid receptor on-activator-1 mediates 1,28-dihydroxyvitamin lä-stimulated alkaline phisphatase in .,20-dinydroxyvitamin Dr-stimulated alkaline phisphatase in human ostelsariuma tells.
3111, R. K. I.; Bell, M. H.
1. Lepartment of Medicine, livision of Bone and Mineral Metaholism, Medical University of South Tarollina, 114
1.0 mty Street, Tharlest n. CV, Drawi USA
taloities Tissue International, May, 2011 USB. 19. 19.
18. 10 mty Street. ATTHIB 3 : NEBUBATE O MEDE: FITH THE : STEEL TIPE: Fryllin. : AN FIARE: MINIMEY DANKAR: English Ab . For steroid hormone function to obcur, hablear receptors interact with a series of coactivators including steroid receptor coactivator-1 (SEC-1). The SRC-1 binds the vitamin D receptor [VDR] in the presence of ligand in an activation function 2 (AF-2) - dependent marmer. In order 11 understand the role of this interaction in 1,25-dihydroxy-vitamin D3 1,25 OH)205--mediated gene empression, the level of SRC-1 empression was altered in MG-63 cells. Frevious studies had demonstrated that MG-63 cells express the  $\ensuremath{\mathbf{VDR}}$  and that 1,25(OH)2D3 regulates expression of alkaline phosphatase (ALF). Analysis of MG-63 cells demonstrated that SRC-1 is expressed. A full-length cDMA coding for SRC-1 was inserted in antisense orientation into an empression vector (anti-SRC-1). The MG-63 dells were transfected with anti-SRC-1 or mock vector and stable transformants were selected. Western blot analysis showed a 40 reduction in SRC-1 protein as compared with mock cells. We determined the effect of normal and reduced SEC-1 expression in MO-es relision 1,55 of libb-mediated stimulation of ALE. Whereas 1 [-- M 1,50 [H 2Ds print was a complete.] stimulation in AME in rock relis empressing normal levels of SEC-1, it did not alver ALP in cells empressing reduced levels of SEC-1. Thus, SEC-1 is required for 1,25 OE 203-hedlated gene expression of ALE by Luman Wield dells. ANSWER 5 OF 13 BIOSIS COPYRIGHT 1103 BIOLOGICAL ARSTRACTS INCLUDENTALE 2000:80707 BIOSIS ACCESSION NUMBER: DOTTMENT NUMBER: PREVADAGGGGG lalpha, 25-dihydroxyvitamin D3-induced myelcid cell differentiation is regulated by a vitamin D receptor-phosphatidylinositol 3-kinase signaling complex. Hmama, Zakaria; Nandan, Devki; Sly, Laura; Knutson, Keith AUTHOR (S): L.; Herrera-Velit, Fatridia; Reiner, Meil E. (1) Division of Infectious Diseases, University of British CORPORATE SOURCE: Columbia, 2733 Beather St., Rm. 4827, Vandouver, 67 Canada Journal of Experimental Medicine, Jec. 4, 1482 Vil. 18, ECHRIE: Ma. 11, pg. 18-3-1894. 1800: 1 11-1 11. Artiste 13111111111111111 E1. 1. Len. COMMARK LANCEAGE: En ilish Talpha, he diny drowywitamin PS (18) promotes the matematich of myelout omils and surface expressions of P114 and P114, markets of 941 differentiation in map has to 10. To examine how these despitated at regulated, PHF=1 opils were arown in serim=time rejum and thousand with 13) This was assisted with rapid and translent increases in phosphatidylinositel 3-kinase Fl (-kinase artivity. Furthern 18, Insurti nof 2014 expression in response to 16 was absorbed by a other illockinase inhibitors LYP9401. And worthanning be antisense linearized to mental to the pll1 catalytic subunit of El (-kinase; and to a dominant negative mutant of El (-kinase; and to a dominant negative mutant of El (-kinase. In THE-1 mells, industriant of 2011) expression by I was also approprieted by LYP 40 or and westrannin. Cimicarly, 17274 | 1 and westrannin indicated in-indicated expression of roth CD14 and CD18 in peripheral blood management. In contrast to CD14 and CD18, hormone-induced expression of the Jak and CD18, hormone-induced expression of the Jak inhighter pil in THE-1 reals was inaffected by either worthamin in IV2x41/2. These findings suggest that PI s-kinase selectionly regulates by resolutions and statement of the contract of the D3-induced management differentiation, undependent or any effects in full lightreatment of THE-1 cells with antisense aligned test ides to the vitamin 1 receptor | VDR | mRNA aprojate a both a midation of pi s-kinase in response to li and normone-induced T114 empression. Mareaver, both Western blots and in vitra kinase assays matrice in a immunopresigitates of the VDR showed that I i treatment brought about formation of a complex containing both FI 3-kinase and the VDR. These findings reveal a movel, nongenomic mechanism of hormone action regulating moncoyte differentiation, in which vitamin is activates a VDR- and Pi 3-kinase-dependent signaling pathway.

LP ANSWER FOR 28 PIOSIS CONTRACTO LICE BIOLOGICAL ABSTRACTS INCLUSINGATE

Accescial NUMBER: 1994: 48 12 BINGLO opportuition of the first 3 PEUI 3 M . 24 m 12 2

There werication of an enhancer required for

1,15-dihydromyvitamin Di-dependent transactivation of the

rat estechaldin gene.

Sheddon, W. Bruce; Demay, Marie B. II ATTHORS:

(1) Endocrine Unit Wellman E.I. Massachusetts General Hospital, Boston, MA, CEII4 USA MARPORATE SOURCE:

Journal of Ceilular Biochemistry, (June 1, 1999) Vol. 75, SOURCE:

No. 3, pp. 430-467. ISSN: 6736-2312.

Article DOCUMENT TYPE: LANGUAGE: English SUMMARY LANGUAGE: Enalish

The sequences in the rat osteogalcin gene that lie 3' to the vitamin D response element (VDRE) contain a GSTTTGS motif (-420 to -414) that is essential for transcriptional activation of osteogaloin-CAT (00-0AT fusion genes by 1,25(OH)2D3. A second copy of this motif, present on the antisense strand is unable to compete for nuclear protein binding to the VDRE-associated motif, suggesting that the core element extends beyond the GGTTTGG motif. In order to examine the base requirements for both function and nuclear protein interactions with the VDRE-associated 3377733 enhancer motit, deletion and substitution of flanking sequences was performed in the context of both the native extendablin promoter and a impercitables viral promoter. These data demonstrate that the case requirements for probein-IMA interarrions and transactivation are limited petween -460 and -414. The position of the element with respect to the UDRE is flexible and insertion of additional depies either 5' or 3' to the VDRE further enhances transactivation, both in the context of the native esteccalcin promoter and a heterologous viral premoter. These data demonstrate that VDR-dependent transactivation of the rat osteopaloin gene requires not only the VDRE (-480 to -440) but also sequences between -430 and -414. The protein so that interacts with these sequences is capable or enhancing transcription in both a position and orientation-independent fashion.

ANSWER O OF 23 BIOSIS ONEVELOUS BUILDING ABSTRANTS IN AUTHORITY

ACCESSION NUMBER: DOCUMENT NUMBER: 1999:348186 BINSIA PREC1 495 1346 1446

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lakosnita, Asira, Irai, Penisni, Bato, Jilbeasi, Bitabo, ATTA & DOC In Eq. ( ) Hamadawa, Indeed when

1 Japan Bal Michaella, Merkar Chiv. Com. Pentuatry. TERESATE COMESE:

Meyakidai, Jakado Alty, Jaitama 507-12 Japan Journal of Biological Chemistry, TJune 12, 198-1 Vil. 201, No. 24, pp. 14038-14044. ISSN: 121-9288. SCOBOE: Artiole CONTRACT TIEE: English IAN HARE: The present study demonstrates lalpha, if debydromyvitable in it large lalpha-LD- IB file synergies toward transfer into a growth large large to the TSF erecal-ingrees a divation protein-1. Ai-1 cardivery in a week see plact of Model-Bi relic via the national report of the Witabara. Imprese the plact of Model-Bi relic via the national report of the Witabara. Imprese the relicions relating to that if the ret of gene. We all weekly shower by a general link was a seasy lalpha-1. The ultrayear place in TSF-retal-induces AF-1 pinding to the IL-7 electrodecomply phother label acetate response element of RBL. Talpha-25- talpha-25- talpha-15 transferred with transferred with transient activity of TGF-betal-indused AP-1 in the sells transferred with a TRE-chloramphenical acetyltransferase (JAT) reporter gene. Also, a synergistic increase in COF-betal-induced CAT and Ditty was district in the cells outransferred with an expression testor enoughing vitamin Dy receptor (VDR) and the reporter gene. However, the synergistic CAT activity was inhibited by pretreatment with VDR antisense oligonucleotides. In addition, in a Northern blot assay, we observed lalpha-25 (OH) 2D3 synergism of TGF-betal-induced empression of the d-jun gene in the cells transfected with the VDR expression vector and also found that the synergistic action was clearly blacked by VDR antisense oligonuslestide pretreatment. The present study strongly suggests a novel positive regulation by laipha-20-70H12D18 of TRE-petal-induced AF-1 activity in osterklasts via "generic action." AMSWER & OF 18 BIOSIS - MEYRIGHT 2013 BIRLOGICAL ABSTRACTS INCLUMELIMATE ACCESSION NUMBER: DOCUMENT NUMBER: 1998:25 8887 Birdis EREVIABBO NEGAGE TITLE: A negative vitamin D response DNA element in the human parathyrold hormone-related poptide dene binas to vitamin I receptor along with Ku antigen to be diate sequative gener regulation by vitamin P. Mishishita, Toshihido; Okanaki, Tomoki (1); Ishikawa, AUTHOR(S): Toshio; Igarashi, Tetsuya; Hata, Kelshi; Ogata, Etsuro; Fuiita, Toshiro (1) Endourine Genet. Hypertension Unit, 4th Dep. Internal Med., Univ. Tokyo Soh. Mei., Bunkyo-ku, Tokyo 11/ Japan Journal of Biological Chemistry, (May 1, 1775) Vol. 201, No. 18, pp. 10901-1090. CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: Article LANGUAGE: English We found that the human parathyroid hormone-related peptide (hFTHrF) dene contained a INA element "nUDRFRETHRE" horologous to a negative virable l response element in the human yarathyrolichormone generally in it is within I resignor VDR but not retinal variable Malpha is set in SMH alpha in the formula  $\Gamma$  will line VDR but VDR but in Fig. this element was confirmed by the Journment and asset of money with irrun aspleti nomanni anti- $\overrightarrow{VDR}$  ron elonal antik dy, and thus binding a rivity was represently l, = thy an ayurtamin lt. On the repression was new recitiy acid phosphorase the atment, such stind that i, le-dibydrowych amin De glosginarylates VDR to weaken ito Finding a thytry to purkels THEE, in elegantesis neglicity shift access. we count and i-For and issue and it by upodifically supershire into Mills the Mills and issue in the Mills and is a property in the Mills and it is a mill and it is a in Min wells, which was markedly masked by the introduction of the Endantish expression vertor in the antisense orientation. In the theother hand, such a problem in the perturbation the vitamin I response

everent-mediated dene stimulation by untamin 1. These is south indicate that numerically interacts with Fu antiden in abition to  ${f VDR}$  : mediane generally present by the ability 19 ANSWER & FOR BINGS CORPELED 1 SERVICE STREET AREAS ARRIVATION OF MILE

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Antisense inhibition of vitamin D reservor

expression induces approximate in minorial to the terms. Hewison, Martin (1, ) Dakrowski, Michal, Vadher, Chilpa, Faulkner, Lee, Orckerill, Filha J., Brickell, Faul M., ACTECA, COL

O'Riordan, Ceirrey L. H.; Kato, David F. -10 lep. Meditine, Univ. Birmingham, Tueen Elipaketh Hor., CORPORATE SOURCE:

Eddbaston, Birmingham F18 ATH UK

Journal of Impunology, (1996) Vol. 156, No. 11, ps. 4361-4411.

[881: 11.2-17.7] SITECE:

Artitle in Timenia IVER: TANTA E:

The active vitamin D-8 met as lite 1,21-inpurrayon less citeral (1,28 (DB) -20-3) arms as an amtiprolliferative and differentiating agent for the monoblastold well like M937 and as an important immunologic mediator implicated particularly in the function of cells belonging to the monocyte/macrophage lineage. These effects are controlled by the vitamin D receptor (VDR), a member of the steroid hormone receptor family. The objective of this study was to develop UP30 transfermants empressing antisense VDR mRUA, and to use these to examine the role c: 1,26 OH; -20-3-VDR interaction in this lineage. A 2-Mb VDR cDNA insert (including the complete VDR coding region) was sloned in an antisense crientation into the REV episonal vector pMEF4 under the control of an inducible promoter and transfected into 1937. The resultant cell line, DH42, was hygromycin resistant, contained VDR cDNA, empressed fewer VDRs than controls, and showed a substantial decrease in antiproliferative response to 1,25 (CH1-AD-3. However, 1,25 (OH)-AD-3 increased the number of response to 1, as on Talte. Heavist, 1, a somether intresend the hidder of cells expressing macrophage cell surface Ags, including MIA and MIR. A subpopulation of smaller cells did not express the differentiation markers after tadmium stimulation. Cell type analysis showed shifts in the distribution of cells from BI to 2 phase, which were more pronounced after cadmium treatment. A considerable proportion of cells were cutside the cycle and DNA fragmentation confirmed apoptosis. Thus, the cunctional cutoning of the VDR antisense transferring supports than in the myelomonomy to lineage, **VDR** emplession may and as a protective methanism against promannel cell leath.

ANSWER IC OF 03 BIOSIS COPYRIGHT 20 4 BIOLOGICAL ABSTRACTS INTUDUDINATE

1996:F11026 B1 818 ACCESSION NUMBER: CONTRACT CONTRACT. 1 REV1 8 % 991330 54

Mitamin D receptor empression is required for newth

modulution by lealpha, Acedinydroxyvitamin (2-8 in the human

prostatio parsinoma cell line ALVA-31.

Hedland, T. F., Mairett, E. A., Milley, A. T. ATTECE, 3 :

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l-alpha, 25-dihydromyvitamin (1-3  $\pm 1$ , 25  $\pm 3$ ). He HCHP  $\pm$  regulates the growth and differentiation of several human FC cell lines. Both genimin and non-genomic signalling pathways for 1,25 oH =2 1-3 have been reported, although the mechanism of action in EC wells has not been detined. We now provide data supporting an arrive rise to the horizon without 1 serget of VDR In meniating the growth-inhibitory effects if look of the Table 1 VDR In meniating the growth-inhibitory effects if look of the Table 1 volume end of the VDR-rich could like ALVA-ri, the regrets in an error of the transfer product by similificant manges in VDR of NA expression. In contrast, the Tell office 1 VDR of NA expression in the contrast, the Tell of the VDR parameter in VDR parameters and later manges in more with early manges in VDR parameters. 1-1. Do appears the book of the VDR book alteratily, transfertible studies were pursued. ALVA-11 belie were starly transferred with ab antisense VDR SIMA construct in an abtempt to reside VDR empression. Antisense mBNA empression among plunes was associated with: Jam reduced or an lished sensitivity to the effects of 1,08 (OH) -20-3, on growth; (b) depreased numbers of VDRs per cell, as measured by radiclabelled-ligand binding; and [b] a lash of industion of the VDR-regulated engage 24-hydroxylase in response to 1,20/080-20-3. From these studies we conclude that the antiproliterative effects of 1,25(OH), D, require expression of the nuclear VDR in this system.

AMSWER II OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL APSTRACTS INC. DUFLICATE 14

ACCESSION NUMBER: 1994:256269 BIOSIS DOCUMENT NUMBER: PREV149497289269

Identification of a vitamin D-responsive elements in the

St-flanking redism of the rat 25-by howyvitamin F-t

..4-hymn.mylase genera

myaha, Yashiniko (1); dermo, Kalichi; Comida, Motoyuki; ATTER 3 :

Shinki, Teshimasa; Kate, Shi paaki; Suda, Tatsur; Yamamito,

Psamu; Moshiro, Mitsuhide; Kato, Yukic

(1) Graduate Dep. Gene Sci., Fac. Sci., Hiroshima Univ., 1-3-1 Kagamiyama, Higashi-Hiroshima "24 Japan CORPORATE SOTROL:

Cournal of Biological Chemistry, (1994) Vol. 2007, No. 14, pp. 10545-10553. SOURCE:

iāam: 3021-925a.

DEPOSENT TYPE: Artifie

LANGUAGE: English The 5'-flanking region of the rat vitamin D-3 24-hydromylase (P450c524 dene was examined and a vitamin D-responsible element (VDRE) responsible for the 1-alpha, 25-dihydroxyvitamin D-3 (1, 25-(OH)-20-3) enhancement was identified. Unidirectional deletion analyses of the 5'-flanking region indicated that the region (-10%,-102) is involved in viramin 2 responsiveness. Further functional analyses showed that the segment (-214)-1230 conferred the hormon- responsitioness in an orientation-independent manner when it was placed upstream to the heterologous thymiding kinass princtor or the rabbit bota-discus promoter. The segment - -14 -11 - the single down the more peat methics is melicinas to Ther Vores from Einsthe stephalpin and steppintin Free. Synthetic digenuals aids a neaimine the gutative ULRE were used to functional analyses and delimbbility shirt assays. The proximal (-101-100), but hit the distance of the Electric Street appear artifaction the transcription in a serious constitution of the the prominal director repeat to are its top as with the director in the fait of and the area of the first of the fait of the f in the presence of 1, 1 - 1 H - 11 - 2. There is walks and bate that a deficit repear horiz, Australia marriety, in smed at -111 passe pains upstream in the antisense stranditinds to a heterol rose direct obsisting of the VDR complete with 1,20 - off - DF and the nuclear accessory fact of and that it plays a minimal rise in regulating the vitarin I chain terent of the rat PASIBBLA tene expression.

IN ADDRESS OF BUILDING SERVED BY A BUILDING SERVED BY A SERVED BY AN ARCHAIGN CONTROL WATER ATTENSION NUMBER: DUOTERNO NUMBER: DUOTER: 1990:2:30:00 B1 212 PARA: TEN PROCESS OF COMBARA STREET PROPERTY OF METAL DEVELOR OF ALCHEMENTS OF METAL DEVELOR OF ALCHEMENTS OF METAL DEVELOR OF METAL COMBARANCE OF METAL COMBARANCE OF METAL COMBARANCE OF METAL COMBARANCE OF STREET amera : PALCIUM PES. LAP., ST. MITHABL'S BOUE. ANNEM, SP CHOTEP STREET, TORONTO, ONT. MEB 1A8, CAN. MOL BRAIN RES, (1992) 13 (8), 289-287. CODEN: MRREE4. ISSN: 1169-336M. THEOREM CORPORE SUMBER: FILE SEGMENT: BA; Oll LAN MAGE: Enalish Peceptors for vitamin 1 hornone VDR and the calcium binding protein, balbindin-Abk, have been localized in many tissues, including Regin. In grain, VDR and calcindin-vak were reported to the present study, in situ hybridization with tritiated antisense BMA probes was used to examine VDR empression in paired Alphoimer and Huntington brain tissue. Message levels for VDR were reduced, on average, by  $34\times$  and 31, respectively, in Alcheimer hippocampal CA1 and CA2 pyramidal cells, as compared to Huntington control. However, VDR message levels were not significantly different from control in Alpheimer temporal contem or derebellum. There was no correlation between VDR message levels and brain weight, autopsy interval, patient age or the extent of neurofibrillary degeneration. Instead, VDR mRNA pool size in hippocampal CAT cells correlated significantly with calbindin-28k message levels [r  $\pm$ 0.52, P < 0.631). Decreased message levels for **VDR** and calbindin-28k in these cells were due to an intreased per entage of cells expressing lower message levels for these proteins. These results show that in Alpheimer hippotampal CAL balls, VDR mRNA pool size is downresulated and that this downresulation may play as role in the reduction of mathinain-ask empression. 14 ANSMER 18 OF 18 MEDITHE MEDITHE

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when the relie were in misted with the mitamin for 14 hr before the PA treatment. 22-0xa-1,25 UH 203 000 , an analog derivative of lalpha25 OH 203, having high affinity for the mitamin 13 receptor VDR , also interfered with the PA-induced inhibition in thefts gate expression in the TNF-alpha-treated relie. In intrast, this was not the tase for 04,000 He of the frequent with VDR antisense digitalized tile. Isophal of Holly interfered with PA limitable of the THA-response element humains and mitty of AH-1 in the symmetres at a sense expression of the symmetric action and expression of the symmetric expression of the symmetric expression of the present study suggests a regulatory interference by lalphas (CH) in a PA inhibition of TNF-alpha-induces AF-1 activity in obstephasts.

MEDILINE L9 ANSWER 14 OF 23 ADDRASION NUMBER: 2001/62160 MEDICED
DOCUMENT NUMBER: 21108486 PubMed ID: 1110908 laipha, At-dihy ir smyvitamin ( ) displays diver pent growth ...... effects in both normal and malignant cells. Rashid S F; Mountford J C; Gombart A F; Campbell M J AUTHOR: Division of Immunity & Infection, University of Birmingham CORPORATE SOURCE: Medical School, Queen Elinabeth Hospital, Edgbaston, B18 2TT, Birmingham, United Kingdom. STEROIDS, (2001 Mar-May) 66 (3-5) 433-40. SOTETE: Journal (code: 04/4836. 108M: 1039-108M. PUB. COUNTRY: Thitted States Tournel; Artible; TOURNAL ARTICLE ACTION TYPE: English FILE SEGMENT: Priority Journals ENTRY MONTH: Entered STN: UNLIGHTER EMTER DATE:

Last Updated Am SIN: 2001-019 Entered Medline: 2001-019 Induction of growth arrest and differentiation of some pancer colls by Talpha, 25-dihydroxyvitamin [0.3] [Talpha, 25-0H0 ( $\pm$ [0.3)], and its potential A.H analogs, is well characterized. However, aggressive cancer cell lines are often either insensitive to the antiproliferative effects of lalpha, 28 (OH) (2) D(3) or require toxic concentrations to recapitulate them which has, to-date, precluded its use in anticancer therapy. Therefore we are interested in mechanisms by which lalpha, 25(OH)(2)D(3) signaling has become deregulated in malignant cells in order to identify novel therapeutic targets. We observed previously that lalpha, 00 (OH) 10 its metabolites, generated via the C-A4 oxidation pathway, drive simultaneous differentiation and hyper-proliferation within the same coll population. Thus we have proposed that hetapolism of lalpha, 05 CH (A D 3) via the C-24 oxidation pathway represents a novel-signaling pathway, which int-grapes proliferation with differentiation. In the ourrest study we examined further the role of this pathway and demonstrated than these effects are not restricted to look his pathway and demonstrated than these effects are not restricted to look his collection are observed also but normal nyels is promoted as an incomplete policies. Intributionly, stable transfer for or MON-7 greast ranger of 11s with antisense wiramin 1 %, reseptin **VDR** results antiprolliterative sensitivity to Talpha, 10 0000 2000 of but simulicantly enhanced in win sensiblity is the party of the control of the property of the control of the cont via 1474 exidation pathway sites rise to litands with different to ago was. We go pose that this mechanism may allow the terrorization of population expansion and bell material on format attended at the Causes wells appoint, corrupt this process during nalignant transformation, ky only responding to the pro-proliterative signals, thereby deriving a Sichal advantage.

imiliana . 100 ANDWER 1 PORTS A PROPERTY NUMBER : The anti-proliferative effects of lagrages (Holbot) breast and prostate center wills are associated with industion if BhCAl gene expression. Campbell M J; Combart A F; Ewok S H; Fark S; Kleffler H E ATTE 5: Department of Medicine, Livision of Medical Sciences, CURPURATE SOURCE: University of Firmingham, Clinical Research Institute, Queen Elizabeth Eispital, Eighlastin, Pirmingham, Bii LTB, ondosene, (21) ostolk, 13 44, 5 41-1. Nourhal sole: 8711881, 1888: 0481-945. A TRUE: PUB. COUNTRY: DOCUMENT TYPE: ENGLAND: United Kingdon Journal; Artible; (Journal AFTIOLE LANGMAGE: Emallish Triority Journals FILE SERENT: ENTRY MANTH: Particle and TIME of Times. BRIDER CALLS Entered Communication of the C Entereli Mediine: u The anti-proliferative action of the sect-steroid hormone lalpha, 25-dihydroxyvitamin Da [lalpha, 25 (OH) 203] extends to some, but not all breast and prostate cancer cell lines. By elucidating the molecular mechanisms mediating the sensitivity of these cells, we can identify critical target genes regulated directly or indirectly by lalpha, 25 (OH, 203) and not have proposed directly or indirectly by lalpha, 25 (OH, 203) and not have proposed directly or indirectly by lalpha, 25 (OH, 203) and pathways potentially disrupted during transformation. In this study, we demonstrated the industion of expression of BRCAL mRNA and protein as well as transcriptional activation from the BRCAL-promoter by laipha, 25 (OH) 2D5 in the sensitive breast cancer cell line MCF-7. This was not observed in the Talpha, 25 (OH) 2D3-resistant breast cancer cell line MDA-MB-436. The induction of BRCA1 mRNA was blocked by cyclchexamide. This indicated that transcriptional activation was mediated indirectly by the witamin D receptor  $(\mathbf{VDR})$ . Inhibition of  $\mathbf{VDR}$  protein levels by stable transformation of the anti-sense VDR in MCE-7 reduced the sensitivity of MCE-7 to Talpha, 2000H 20% by E0-fold. In a Hition, the industion of BECAL protein and transcriptional activation of BECAL protein activation activation of BECAL protein activation of BECAL protein activation activati transformant with the greatest rejustion of **VDR** levels. Examination of other breast and prostate canter cell lines revealed that sensitivity to the anti-proliferative effects of Talpha, LECTE 103 was strongly associated with an ability to medulate BRCAL problem. Furthermore, the expression of the estroden receptor in these cell lines strongly correlated with their sensitivity to lalpha, docated with their sensitivity to lalpha, docated with their ability to modulate Bh TAI expression. Taken together, cup data support a model whereby the anti-proliferative effects of Talpha, 25 OHOLLS are mediated, in part, by the industion of BROW1 gene empression via transcriptional activation by factors induced by the VDR and that this pathway is disrupted during the development of prostate and breast cancers. CORNIGATE 15 ANSWER 16 OF 23 ACCESSION NUMBER: 15121111 93136563 Franks 1 II: 1860 177 Type excression, simal transfortion and dissue-qualities Figure 1 align for the marmalian of the fewel profits graves Holy House 2, Sacastra V, 11 kwazeń T, has Y, ATTHUR: My Bringard Try Virgor Ty Mak By Vakan Wy C Norther For Translation Milestian Bill by John I of Jenniarry, Thirestory of Corthern Talls Inca, I of Angeles THE BATE OF THE THIS THE HATCHEST IN HOTHER TO COMPARE EXPENDING  $M_{\star} = 1.00$ 

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Print, North Pitt Trited States Journal; Artible; JOURNAL ARTICLE General Review; RAVIEW SEVIEW, ACALEMIC LANDYAUE: Frallsh file ring Cournales Open Lite Countries FILE OF EMPOUE: Enhand a CTM: 1 for STL Lagr Operated in STM: 1 for Lor ENTER LATE: Fire - a stealing : 1995 iii . In the development provides a paradigm for intrinsit molecular contribution well- and with a well-lar matrix of Wi-modiated fibrings a light one like intend of this review is to evaluate the sequential timing and positional information prerequisite for tissue-specific biomineralization, because investigations suggest that 1,25-dihydromyvitamin Di functions to up-regulate VDR vitamin D receptor, that in turn could induce structural gene products, including calcium-binding proteins and several ECM proteins (e.g., enamelins, amelogenins, dentine staliglystp: telms (DSF) and dentine phosphoproteins (DFF) , resulting in dentine and enamel formation. Inhibition of regulatory gone products and/or their receptors likely results in hypoplastic and/or hypomineralized ECM as a direct consequence of down-regulated (1) transcription and/or translation of structural and regulatory genes, (2) posttranslational modifications, (3) and/or decreased Salsium transport to the forming dentine and enamel matrices. Advances in serumless in vitro culture methodology; computer-assisted access to mucheic avid sequences for probes to define when, where, and how many specific regulatory and structural gene products are expressed; antisense lighdorwynnile tides to inhibit specific translation; and microto-finiques to analyze bi mineralization all provide additional avenues to line stidate tissue-specific biomineralimation. MEDLINE ANSWER 17 OF 23 2001130658 MEDLINE 20024197 FobMed ID: 11149459 ACCESSION NUMBER: BOOKMENT NUMBER: Ab-hydroxyvitamin O lalpha-hydroxylase: structure of the TTTLE: mouse gene, chromosumal assignment, and developmental empression. Panda D K; Al Kawas S; Seldin M F; Hendy G N; Goltzman D AUTHOR: Calcium Research Laboratory, Royal Victoria Hospital, CORPORATE SOURCE: Montreal, Quebec, Canada. JOURNAL OF BONE AND MINERAL RESEARCH, (2001 Dat.) 16 (1) SOURCE: 46-56. Journal code: +010640. 188M: "594-"431. IVB. COMMINE: DOSWENT TYPE: Thite i States Journal, Artible, I TEMAL ARTICLE LAN WARE: English. FILE CHOMENT: THER 3 DROFT: Princip Townsia CONTRACT AFT ALCOHOLIS FUTER NATH: Entered CTM: 000014 4 ENTRY NATE: Last Tposted on STM: C - 174 4 Entered Medline: L 711 1 The number of the Dishyth wyditamin Dijlis Holl The number herel guess; the Dishyth wyditamin Dijlis Holl Talpha-hyth wylase mene (Talpha dH ase, Type bl), which is numbered in humans with vitamin I-dependent in their type I Wilk-I; a.e. Known as pseudovitamin D-deficiency richers (FILB) was cloned and their teriors, like the human, the number tens has nine exche, and the exchaints of Transmired in is well concerved. By inverse wifit have miss analysis, the typ, by pene was mapped to 7 .5 off on mouse through the limits is in a to the syntemic with human throughly.1-qlv.3 to which the human labels [Hose] the was provingely mapped. So may expression of the Lalpha House was I saling sign of the skill bideries and was bidness in the adult of the than the the ferms, consistent with the indicase or less its posts to a second

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1.4 ANSWER 18 BUS CAPITO CAPTRIBLIES AND ADDRAUT IN NUMBER 1 CONTROL 1811 FILL CAPTRI Angelot in number: . : .. 1 : 1 .... Assolve that the state of the following blooms in Benefit 1NA by Direct Multiplex Followers as Chain Beautin Applification on Eliginatic time Mist argays Huber, Martin; Muenilein, Awel; Cornstauder, Eva; ACTE E (3): Schneeberger, Thristian; Tengter, Memens b.; Wellet, Manired W.; Samida, Weligang M. VBO-GENOMICS Biospiense Research GmbH, Vienna, 1939, NURBURATE DUURCE: Austria Analytical Biochemistry (2002), 303(1), 28-33 CODEN: ANBCA2; ISSN: 0003-2697 SCURCE: Elsevier Science PUBLISHER: SOCIENT TYPE: Journal LANGUAGE: English This study introduces a TNA microarray-based genotyping system for accessing single nucleotide polymorphisms (SNPs) directly from a genemic DMA sample. The described the-step approach combines multiplex amplification and allele-specific solid-phase FCR into an on-chip reaction planform. The multiplex amplification of genomic DNA and the penotyping reaction are both performed directly in the microarray in a single reaction. Oligonoplectides that interrogate single nucleatide positions within multiple renominated by a interest are governnly rethered to a glass mip, allowing quos anal. Or reaction products by ilumescence somning. Due to a fouricid SNF determine approach employing simultane we proking of sense and antisense strand information, denotypes tan be automatically assigned and validated using a simple computer alterithm. We used the described procedure for parallel genotyping of 10 different polymorphisms in a single reaction and successfully analyzed more than 100 human DNA samples. More than 99 of genotype data were in agreement with data obtained in sontrol expts. with allele-specific oligonuslectide hybridination and capillary sequencing. Our results suggest that this approach might constitute a powerful tool for the shall of genetic wariation. THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE F RMAT \* · · · · REFERENCE COUNT: IN TWAMER IN OR IN CHEMIC CORRECTED COLLY MAN Tie Kild Dailing ATHEST NOWEFER: Fire to : VDR on proliferation requests ity 1, 7- alognosymmatic in number of control well Then, Yuwia; Iliu, Yudian; Jong, Ilianun ang ATTHUR OF : Tegartment of Pathophysiology, Nerona Minitary Medical University, Chandral, 17444, Body Feb. Thina Thomas Hindle Should David Coll., 1711, 17444, 1871, 1871, 1771, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 1774, 177 DURECHAIE & URME: 3 78 38: ETHILLHER: TERMS TIPE:

The possible fole of withhin 1 to optic **VDR** of effect of 1 1,.5-diffyir mywithhin 10 1,.2 Holliforations mixed analyses has burnet

retein empression in HTS-+. If cells were detected by reverse transcription-polymerase chain reaction BT- BTB and immunication feet, resp., and its function was detected by transient transferring that reporter gene 183-th-7AT for VDR. The effect of 1,75 dH all not proliferation of HDZ-+6 mells and induction of pAI mRNA, where the VDR target genes, after blockage of VDR in the cells was that by using cell VDR as a hormone-legendent transcriptional factor was empressed in HTS-+61 cells. The inhibitity effects of 1,75 dH alter the expression were detreated after blockade if VDR in the cells. The inhibitity effects of 1,75 dH alter the expression were detreated after blockade if VDR in the cells. The results showed that the effect of 1,75 dH alter the proliferation of imman steedard for blockade if VDR in the cells. The results showed that the effect of 1,75 dH alter the proliferation of imman steedard for DECT- like Hadron was mediated by its noteen feeter VDR.

ANSWER 2 OF 23 CAPING OF FYRISHT LOG ANS FURIOUS INTERPRETATION OF AN ELECTRONIC SAFETY UNEXT INTERPRETATION OF A ELECTRONIC ANDOLON MORES SOUTHWEST OF THE RESERVE Establishing a numar tate sarutma real site of stably-transferted vitamin D receptur antisense CDMA Chen, Yumia; Liu, Yujian; Song, Liangnian Department of Fathophysiology, Department of Basic Medicine, Second Military Medical University, AUTHOR(S): CORFORATE SOURCE: Shanghai, 200433, Feop. Rep. China Dier Junyi Dawue Muebao (2001), 22(3), 242-244 CODEN: DIMUEC; ISSN: 0258-579M SOURCE: Dier Junyi Damue Muebac Bianfibu PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE: Chinese AB A human osteosardoma dell line stably-transfedted with human vitamin be receptor (VDR) antisense dDNA was established. The aukaryotic empression vector harboring VDR antisense

A human esteesareema bell line starty-transletted with numan vitamin or receptor (VDR) antisense cDNA was established. The sukaryotic expression vector harkoring VDR antisense cDNA was constructed, and transletted into the human osts sare mastell line HOC-scOb by lip restamine method. The stable translettants were screened by Sdim and the expression of enjoyed us VDR was curtier detected at protein level by immunchistochem, anal. The translettion method. Six detected at reporter gene level by translent transfection method. Six subclones (VDRasl-6) were isolated, and the level of endogenous VDR expression in the VDRas3 cells decreased significantly compared with that in the control cells. The transcriptional attivity of the reporter gene CAT in the control cells increased by 3.5-fold when treated with 1 x IC-6M 1,25(GH)2D3 for VD h, but the transcription of TAT in the VDRas3 cells sould not be induced by 1,25(GH) DD. A cell line stably expressing VDR antisense cDNA is established for the further study of the mol. mechanisms of 1,21-0H)1D3 effort and its analogs on proliferation and differentiation of the human steesartma cell line.

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This invention pertains to the discovery that an amplification of the 2.12 TYPU4 gene or an ingrease in CYPL4 agrivity is a marker for the presence or, progression or, or predisposition to, a dancer ( e.g., breast manner . Using this information, this invention provides methods of detecting a predisposition to can wer in an animal. The methods involve (i) providing a biol. sample from an animal ( e.g. a human patient); (ii) defecting the level of CYP24 within the biol. sample; and (iii) comparing the level of CYF24 with a level of CYF24 in a control sample taken from a normal, pancer-free tissue where an increased level of CYP24 in the biol. sample compared to the level of CYP14 in the control sample indicates the

prosence is said minor in said animal.

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LA ANSWER LA FRANCICAPIUS CORTRIGHI AND ACCESSION NUMBER: 1998:359116 CAPLUS

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129:12943

Method of treating Kaposi's sarooma by vitamin-Do

receptor agenists Gill, Parkash 3.

PATENT ASSIGNER(S): SKATEGE:

Gill, Barkash S., TSA BOT Int. Appl., 34 pp. CODEN: BIKKD2

MOCHERT TIPE: LANGUAGE:

INTENTOR(S):

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PATENT INFORMATION:

AT 1998-30141 1.80111. TO 1998-30141 1.90111. WO 1998-3011 W 199111. FRICKITY AFFIN. TWEST:

A named and effective method for treating Exposits sand no FC dia partients, by administration or an effective art. of vitamin=1 to temptod VDR admist. VDR armists are rapacle i inhibiting the around of KA vells in within by represents the levels of injertant and prine around factors, II=, and II=, in KC vells. The  $\frac{\mathbf{VDR}}{\mathbf{VDR}}$ armists may be administered to ES patients tiplically, incluy, parentally. Substantive improvement in FO lesions is expected by toplose treatment with an FD or a VDR armist upenitorally

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by symbination therapy with  $\overline{VDR}$  againsts and it-1, it-2, and the symbol symbol of the symbol o Theologicals. Framma watera, compass that, the VDR as hists are also claimed.

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Suppression of the dishydromyvitamin Di L4-nydromy.ase debe

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stercia receptor superiablly Meeting distinct. Lee Y F; Young W T; Burkath T H; Thang

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Institute for Cell and Levelsphental Biology

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Entered STM: 19980417 ENTRY DATE:

Last Updated on STM: 1998/417

Human TR4 orphan was demonstrated to repress the retinuid signal pathway by occupancy of the response element for RAR and RMR with higher affinity compared with the RAR/RMR heterodimer. Here we demonstrate that human TR4 orphan receptor specifically binds to AGGTCA direct repeats spaced by 4 nucleotides (DR4), a response element for vitamin D receptor ( ${
m VDR}$ ). In addition, in transient transfection, we found TR4 orphan receptor suppresses rat 25-hydroxyvitamin D3 24-hydroxylase gene promoter activity which contains nature response element for vitamin D receptor. This suppression is dose and VDR response element dependent. The antisense stalming or 16.5-day mouse embryos showed that TS4 orphan receptor dan do-1. dalize with VDR in mouse kidney and integrine, which curries supported the less that TEA organization of the le invilved in the regulation of vitamin I system, a system involved in the proliferation and differentiation of tumbe sells.

AMAMER I UP I MAPLOM NEVEL HET LES ANS MEANING MOTHER: CONTROL I LES INTERNATIONS Andrest in the Market ER : Andrest in the Middle ER : 1991/91/41 MHL4 care amplification and its use as market for presence or projection to represent action to cancer Albertern, I mma t., Finkel, Ianiel, Millins, 7 lin, Hay, No. W., Yerra, Haske Regents of the Thirtersity of Malli Inda, TUA PATENT ANDIGNEE C : ect inn. Appl., Thes. Them: Fixed COTECTE: Hat his LANGUAGE: FAMILY ACT, NUM. C.UUT: FAMENT INF BMATICN: Englist. FATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_ Ai zogai iz wo zhou-msbanz zonechoe Wo 2000060109 , DL, DA, ES, FI, FR, GB, GR, IE, IT, DV, MO, NL,
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R: AT, HE, CH, DE, DK, ES, FP, GB, GP, IT, LI, NL, SE, MO, BI,
IE, FI, CY
ESIGRITY ASSIMILITIES.: W: CA, JP 00 1994-2-5290 A 1949 402 MA 115 -008902 W 20 1 304 This invention pertains to the discovery that an amplification of the TYP24 gene or an intrease in CYP24 ability is a marker for the presente of, progression of, or predisposition to, a mander ( e.g., breast cander). Using this information, this invention provides methods of detecting a predisposition to cancer in an animal. The methods involve (i) providing a biol. sample from an unimal (e.g. a human patient); (ii) detecting the level of CYP24 within the biol. sample; and (lii) comparing the level of CYP24 with a level of CYP24 in a control sample taken from a normal, cancer-free tissue where an increase level of CYP24 in the biol. sample compared to the level of TYPL4 in the control sample indicates the prosence of said canter in said animal. THERE ARE DOITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT FEFFRENCE COUNT:

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Sumbart, A. F.; Heber, D.; Koefiler, H. B.

Div. Hematol. Shoot., Cedars-Sinal Med. Center, USLA Sim.

Med., Div. Nutrition, los Angeles, CA USA

Blood, S1994. Vol. 54, N. 11 SWHILL 1, pr. 5-6A.

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Tennestee, USA Leberger 1-7, 1974

1988: 3-4-1. ATTH BULL: DURBURATE CONFOR: BITTERE: Janiferen be Dorona Contraction LANGUA H.: 111. 11. 13.11 DIR AMEREE OF 4 CARING OFFICED UTCH ACS Angesini Number: 2:::1271 DOUNENT NUMBER: 137:347812 Construction of lentiviral vectors for inducible high level controlled empression of transfermed genes in mammalian delis and therapeutidal uses Evans, Ronald M.; Saec, Enrique; Verma, Inder M. INVENTOR(8): The Salk Institute for Biological Studies, TSA PATENT ASSIGNEE'S': PCT Int. Appl., 41 pp. SOURCE: CODEN: PINHDA DOCKERT TYPE: Fatert LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATERT NO. KIND DATE APPLICATION NO. CATE RW: 3H, 3M, KE, LS, MW, MD, SD, SL, SD, TD, EG, DM, DW, AT, BE, DH, CY, DE, DK, ES, FI, ER, 3H, JE, IT, LT, MC, ML, BT, SE, TF, BF, BJ, CE, CI, CI, CM, SA, CH, GD, WW, ML, ME, ME, SM, TD, TS APPLIN. IMED.:

TS DOOL-0-8307F P DOOL-041 PRICETTY APPLY. INFO.: The present invention provides indusible gene transfer systems and who ΑĐ

transfer vectors of lentitirus for the safe and effective transfer and expression or genes in mammalian cells, and for a very high level of control of empression of the transferred menes. The indubible gene transfer systems of the present invention may be lentiviral vectors omprising a self-inartivation of LTE, a modulator-responsive promoter, a muslear import simul, a promoter operatively associa with a muslein and end ding a modulator-responsive promoter operatively associa with a muslein and end ding a modulator-responsive or equipment, an ENA stabilizing election of the self-inartivation of LTE. Thus, the present inventor a provided to the provided of the self-inartivation and according to the self-inartivation and the self-inartivation of the self-inartivation and according to the self-inartivation of the self-inartivat ing property incompanies and provide a between the first treating of a site with the which ranges by sterious to the greatest invention, and become total the debe ta audiki bystkov.

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presence of progression of or predisposition to cancer Algertein, denna d., Hinsel, Tantel, Tolling, Tilling, Bray, Tee W., Estra, Basse Begents of the University of Malarana, TVA FATEUT AND MIFE O: rdiche. App., briek Chamaran 3 75 75: 1811 1178 1771 Ed. (2.181) Francisco de la composición del composición de la composición de l PAIRNI INFURNATION: AFFRICATION NI. LATE KIND DATE Figure 100 \_\_\_\_\_ o Aio Compilia de Cara Monaro Emissono de Cara € WO 0. 316 1 4 W: TA, TE BE 1288888 A1 ACCRISTS EF 2010-904146 A0000908 R: AT, BE, CH, CE, DK, ES, FF, GB, GF, II, LI, LU, NL, SE, MO, ET, IE, FI, CY FROATTY APPING INFO.: ts 1999-288292 A 19991402 Wo 2009-088900 W 20 108 k This invention pertains to the distourny that an amplification of the OTFIG sense of an increase in OTFIG a wintry is a marker for the presenct of, progression of, or presinguishing to, a tander feet, kreast cannot be. reina this information, this invention provides methods of determing a predisposition to cancer in an animal. The methods involve (i. providing a biol. sample from an animal (e.g. a numan patient); (ii) detecting the level of CYP24 within the bicl. sample; and (iii) comparing the level of CYP24 with a level of CYP24 in a control sample taken from a normal, cancer-free tissue where an increased level of CYF24 in the biol. sample compared to the level of CYF24 in the dontrol sample indicates the presence of said cancer in said animal. 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT: 116 ANSWER 4 OF 4 CAPIUS COPYRIGHT 2003 ADS 2000:161479 CAFLUS ACCESSION NUMBER: DOCUMENT NUMBER: 132:204016 Adenoviral vectors and inducible expression system for []].L.E. dene expression and therapy Mehtali, Majii; Soru-guss, Tania INVENTOR(S): FATENT ASSIGNEE (S): Transpend S.A., Fr. a troitée. As sillor Contents situation DOCUMENT OFFE: TANGUAGE: FAMILY ACC. NUM. (NUMU): FATERIC THE BRACE NO Fateni Erenot. APPLICATION NO. CATE KIM EPACE AND AND \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ We look in all and an analysis we imperson is a feature we also in a feature we also in a feature as a convent a with a feature as a convent a with a feature as a convent a with a feature and a feature and a feature as a feature and a featu EB 1:49--10-4. CA 1:49--1:41.000 AD 1:44--141.41 FF 775 AT 941 (18. Ki 11 + 61 ME, 18, 18, 88, 88, 38, 38, 10, 11, 10, MI, JE, MT, BI, Ed Al, BE, IE, Fl 

FB 1976-1 H4. A 1277-1557 W 1889-FB.1911 W 1899-FB.1911 IFI BILY AFELD. INF .: The invention conserns an inaudikle expression system using number tide sequences obding for a transpriptional appirates of eukaryotic or vira. origin and a recombinant agen wiral wester comprising a gene of involves planed under the control of a promoter indusible in transity said transcriptional activator. The invention also concerns a recombinant adentivital vector bearing a first expression dassette of int for a transpriptional activator and a second cassette kearing a sene of interest placed under the control of a promotor indicate in trans ky said Pranscriptional activator. The invention further tunioristan intertions wirst particley its prophi method, a committed bell and a phabra builted company companishes so that we must be expressed an eyester as well as their conthe therapeutin or prophyla til purposes. Inte, an atmospherical vertification of the second of the war inarpoler, with and in viv. by became that he .

no Andres o solo vendo despesso de AM Amengo nombres do la Coloca de Mario A MENVI NOVERRI L'ONNENT NOVERRI 114:1.... The mutamin 1-responsive element in the rator be lead protein and is an imperion directorepost that to perates with other diselecteds in 1,..b-dihyaromyvitamin 13-mediated transmipti bal adminumi n Terpening, On Estopher M.; Houseler, Cottl A.; ANTHOR A: Turutka, Beter W.; Wallidan, Midhael A.; Kum, Barry D.; Bassler, Mark F. Dell. Med., Univ. Aridona, Tasson, AD, FDUA, USA Molecular Endobrin losy 1991, Doc., FDE-5 COMEN: MORNEN, ISSN: 1888-8889 OURFORATE ALURAE: 01 TE 1F: Jaurnal DOOTMENT TYPE: LANGUAGE: English The gene for rat bone gla protein (BGP) was isolated and 1210 basequirs 'bpl, including 1100 br of 5' flanking TWA, were placed up-stream in the human OH reportor gene. After transfert transfert in Into the osteoblast-like rat osteosar oma dell line Ful 10 1.4, the FGF promoter demonstrated a low level of basal activity that was increased approx. Thefold by the addn. of 17-6 M 1,25-dilydromyvitamin DB [1,25-08-20], single 25-by fragment [-023 to -204] was sufficient to confer hormone. industrictly upon both heterologius and homologius promoters. Dejetion studies, complemented by evaluation with synthetic oliginers, enabled lipsalication or the 1, 3- (H 20) pespinse element to within 19 pp 3-456 to -400 , whith an element with an imperiod direct regear [300 W 14] (WWW) and home), to other steroid-responsible elements. Gel retardation assays demonstrated that partially puritied chick intestinal 1,25-(JH)JDS receptor bound specifically and with high affinity to a DNA fragment contg. the putative 1,25-(OH)2D3 response element, and this binding was perturbed by monoclonal antibodies to the 1,25-(OH)2D3 receptor. Surprisingly, the 250-bp fragment, when linked in an antisense prientation with respect to the BSF promoter, blocked hasal and homone-dependent gene expression. However, a 246-bp fragment 5' to the 200-by element (-1100 to -800) restored D -told industrility when linked to the first fragment in the same orientation, sugjecting the proporativity between at least two elements to a hiere the homenal regulation obsd. in this gene.